

**Course Code and Name: OPTO 323**  
**Clinical Examination of the Visual System III**

**Units: 1 + 2 = 3 credits**

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**Recommended textbooks:**

1. Clinical Procedures in Optometry - J. Boyd Eskridge, John F. Amos, Jimmy D. Bartlett.
2. Clinical procedure in primary eye care by David B Elliot

**Topics of the course in details:**

Week	Topic in details	Notes
1	<p><b>Biomicroscopic Examination of the Posterior Segment (Fundus Biomicroscopy)</b></p> <ul style="list-style-type: none"> <li>• Definition of fundus biomicroscopy</li> <li>• Clinical use of fundus biomicroscopy</li> <li>• Type of lenses used in fundus biomicroscopy:</li> <li>• Hruby lens (power, image formation, advantages and disadvantages).</li> </ul>	
2	<p><b>Biomicroscopic Examination of the Posterior Segment (Fundus Biomicroscopy) II</b></p> <ul style="list-style-type: none"> <li>• Fundus contact lenses (types, advantages and disadvantages).</li> <li>• Procedure for examination with the Hruby lens</li> <li>• Condensing lenses (power, image formation, advantages and disadvantages)</li> <li>• Procedure for the examination with condensing lenses</li> </ul>	
3	<p><b>Tonometry</b></p> <ul style="list-style-type: none"> <li>• Definition of tonometry</li> <li>• Clinical use of tonometry</li> <li>• Techniques of tonometry:</li> <li>• Indentation tonometers (Schiotz tonometer)</li> <li>• Principle and procedure for Schiotz tonometer</li> </ul>	
4	<p><b>Pupil Evaluation:</b></p> <ul style="list-style-type: none"> <li>• Measurement of pupil size</li> <li>• Direct pupillary light response</li> <li>• Indirect pupillary light response</li> <li>• The pupillary near (accommodative) response</li> <li>• The swinging flashlight (Marcus-Gunn) test</li> <li>• Pupil anomalies (afferent and efferent defects)</li> </ul>	
5	<p><b>Mid Term Exam 1</b></p>	

6	<p><b>Amsler Grid:</b></p> <ul style="list-style-type: none"> <li>• What is the Amsler grid?</li> <li>• When to use the Amsler grid?</li> <li>• How to use the Amsler grid?</li> <li>• How to record the results with the Amsler grid?</li> </ul>	
7	<p><b>Visual fields I</b></p> <ul style="list-style-type: none"> <li>• Introduction to the concept of visual fields: <ul style="list-style-type: none"> <li>➤ Island of vision</li> <li>➤ Kinetic and Static perimetry</li> <li>➤ Isopter</li> <li>➤ Basic concepts</li> </ul> </li> <li>Visual fields defects</li> </ul>	
8	<p><b>Visual fields II</b></p> <ul style="list-style-type: none"> <li>• Stimulus definition and units of light</li> <li>• When to perform a visual field test?</li> <li>• Confrontation perimetry</li> <li>• Goldmann perimetry</li> <li>• Automated perimetry (Humphrey visual field analyzer)</li> <li>Clinical procedure</li> </ul>	
9	<p><b>Mid Term Exam 2</b></p>	
10	<p><b>Brightness and color comparison</b></p> <ul style="list-style-type: none"> <li>• Brightness comparison test (indications, procedure, recording and interpretation)</li> <li>• Red desaturation test (indications, procedure, recording and interpretation)</li> </ul>	
11	<p><b>Exophthalmometry</b></p> <ul style="list-style-type: none"> <li>• Definition exophthalmometry</li> <li>• Condition's causes exophthalmometry</li> <li>• Instruments used to measure exophthalmometry</li> </ul>	

<b>12</b>	<p><b>Gonioscopy</b></p> <ul style="list-style-type: none"> <li>• Definition of gonioscopy</li> <li>• Basic concept of gonioscopy</li> <li>• Lenses used for gonioscopy</li> <li>• Clinical procedure</li> </ul>	
<b>13</b>	<b>Revision and tutorial</b>	
<b>15</b>	<b>Final exam</b>	

### Course Assessment methods

Task/ Exam	Marks %
<b>1<sup>ST</sup> Mid-Term Theoretical Exam</b>	<b>15</b>
<b>Mid-Term Practical Exam</b>	<b>15</b>
<b>2<sup>nd</sup> Mid-Term Theoretical Exam</b>	<b>15</b>
<b>Final practical Exam</b>	<b>15</b>
<b>Final Exam</b>	<b>40</b>
<b>Total</b>	<b>100</b>

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